AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application: LISTING OF CLAIMS:

- 1. (currently amended): A ground-fault detecting device, comprising:
- a power source, electrically insulated from a vehicle body;
- a pulse signal generator, generating a pulse signal having a high level and a low level which are appeared appear repeatedly in a prescribed cycle;
 - a detection resistor, connected to the pulse signal generator and the power source;
 - a coupling capacitor, connected to the detecting resistor in series;
- an integrator, integrating a difference between a first reference voltage and a detection voltage of the pulse signal at a connecting point of the detection resistor and the coupling capacitor over an integration interval; and
- a ground-fault determinant, judging whether a ground fault is has occurred on the basis of an output of the integrator,
- wherein the integration interval has at least part of a high-level interval and or a low-level interval of the pulse signal.
- 2. (original): The ground-fault detecting device as set forth in claim 1, wherein the integrator includes:
- an integration circuit, integrating the difference between the detection voltage and the first reference voltage; and

an integration reset signal generation circuit, generating a reset signal for rendering the integration circuit in a reset state over intervals other than the integration interval on the basis of the pulse signal supplied from the pulse signal generator.

- 3. (original): The ground-fault detecting device as set forth in claim 1, wherein the ground-fault determinant is a hysteresis comparator which compares the output of the integrator with a second reference voltage for obtaining a ground-fault detection output.
- 4. (original): The ground-fault detecting device as set forth in claim 1, wherein the ground-fault determinant is a sample-and-hold circuit which sample-and-holds the output of the integrator as an integration value for obtaining a ground-fault detection output.
- 5. (original): The ground-fault detecting device as set forth in claim 1, further comprising a compensation capacitor, having a capacitance corresponding to a vehicle-side capacitance, and provided between the vehicle body and the coupling capacitor.
 - 6. (currently amended): An insulation resistance measuring device, comprising: a power source;
- an insulation resistance, electrically insulating the power source from a vehicle body;
 a pulse signal generator, generating a pulse signal having a high level and a low level
 which are appeared appear repeatedly in a prescribed cycle;
 - a detection resistor, connected to the pulse signal generator and the power source;

a coupling capacitor, connected to the detecting resistor in series;

an integrator, integrating a difference between a first reference voltage and a detection voltage of the pulse signal at a connecting point of the detection resistor and the coupling capacitor over an integration interval; and

an A/D converter, A/D converting an output of the integrator as an integration value so as to generate a digital value corresponding to a resistance value of the insulation resistance,

wherein the integration interval has at least part of a high-level interval and or a low-level interval of the pulse signal.

- 7. (currently amended): The insulation resistance measuring device as set forth in claim 6, further comprising a ground-fault determinant, judging whether a ground fault is has occurred on the basis of an output of the integrator.
- 8. (new): The insulation resistance measuring device as set forth in claim 6, further comprising a compensation capacitor, having a capacitance corresponding to a vehicle-side capacitance, and provided between the vehicle body and the coupling capacitor.
- 9. (new): The ground-fault detecting device as set forth in claim 1, wherein the integrator comprises an operational amplifier, a switch, and a reset signal generation circuit.
- 10. (new): The insulation resistance measuring device as set forth in claim 6, wherein the integrator comprises an operational amplifier, a switch, and a reset signal generation circuit.